

CLAIMS

1. A method for shaping of web-like or sheet-like semifinished products (7, 8) made of open-pored plastic using a multipart forming tool (1), whose tool parts (2, 3), which may be moved toward and away from one another, define a cavity (4) having at least one mold structure (5, 6), characterized in that at least one section of a web-like or sheet-like semifinished product made of open-pored material is shaped in the cavity (4) of the forming tool (1) by inflating a balloon or hose (18) made of elastic material which is assigned to the cavity (4).
2. The method according to Claim 1, characterized in that several web-like or sheet-like semifinished products (7, 8) made of open-pored material are shaped simultaneously in the cavity (4) by inflating the balloon or hose (18).
3. The method according to Claim 1 or 2, characterized in that, when shaping a section of a web-like or sheet-like open-pored semifinished product manufactured from duroplastic, the semifinished product (7, 8) is heated inside the forming tool (1).
4. The method according to Claim 1 or 2,

characterized in that, when shaping a section of a web-like or sheet-like open-pored semifinished product manufactured from thermoplastic, the semifinished product (7, 8) is heated before being fed into the forming tool (1).

5. The method according to Claim 4, characterized in that the semifinished product (7, 8) is heated through contact heating or through radiant heating.
6. The method according to one of Claims 1 through 5, characterized in that the shaped part produced from the semifinished product (7, 8) is cooled in the forming tool (1).
7. The method according to one of Claims 1 through 6, characterized in that a forming tool (1) whose at least one mold structure (5, 6) has at least one undercut (23, 24) is used.
8. The method according to one of Claims 1 through 6, characterized in that the open-pored semifinished product (7, 8) is fed to the forming tool (1) as web product unwound from a coil (9, 10).
9. A device for shaping web-like or sheet-like open-pored plastic semifinished products (7, 8), having a multipart forming tool (1), whose tool parts (2, 3), which may be moved toward and away from one another, define a cavity (4) having at least one mold structure, and at least one blowing pin (17) assigned to the cavity (4),

characterized in that the blowing pin (17) is provided with a balloon or hose (18) made of elastic material, which is inflatable inside the cavity (4) of the forming tool (1) to shape at least one section of a web-like or sheet-like semifinished product (7, 8) made of open-pored material.

10. The device according to Claim 9, characterized in that at least one of the mold parts (2, 3) of the forming tool (1) is provided with a heating device (25).
11. The device according to Claim 9 or 10, characterized in that a heating device (13) for heating the open-pored semifinished product (7, 8) is arranged upstream from the forming tool.
12. The device according to Claim 11, characterized in that the heating device (13) is formed by heating plates (14, 15, 16), which may be moved toward and away from one another.
13. The device according to Claim 11, characterized in that the heating device is formed by at least one radiant heater.
14. The device according to one of Claims 9 through 13, characterized in that the forming tool (1) has at least one mold structure (5, 6) having at least one undercut (23, 24).
15. The device according to one of Claims 9 through 14,

characterized in that the forming tool (1) is implemented in such a way that several web-like or sheet-like semifinished products (7, 8) made of open-pored material may be shaped simultaneously in the cavity (4) by inflating the balloon or hose (18), each tool part (2, 3) being assigned a semifinished product (7, 8) to be shaped.

16. The device according to one of Claims 9 through 15, characterized in that the hose is attached airtight at one end to the blowing pin (17) using a collar (19) and is closed airtight at its other end using a removable seal (20).